



## PATENT ABSTRACTS OF JAPAN

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(21) Application number: **05123142**(22) Date of filing: **28.04.1993**(71) Applicant: **ASAHI BREWERIES LTD**(72) Inventor: **TAGASHIRA MOTOYUKI****(54) UTILIZATION OF HUMULONES HAVING ANTIOXIDANT ACTION****(57) Abstract:**

**PURPOSE:** To provide pharmaceuticals, foods, drinks and cosmetics having antioxidant action and containing, as active components, humulones or their salts constituting the main component of a hop soft resin producible from hop used as a raw material for beer.

**CONSTITUTION:** The pharmaceuticals, foods, drinks or cosmetics having antioxidant action contain one or more kinds of humulones of formula [R is  $\text{CH}(\text{CH}_3)_2$  (cohumulone),  $\text{CH}_2\text{CH}(\text{CH}_3)_2$  (humulone) or  $\text{CH}(\text{CH}_3)\text{CH}_2\text{CH}_2$  (adhumulone)] as active components. Humulones are obtained in the form of cohumulone, humulone or adhumulone or their proper mixture

from natural hop using Wollmer's method and optionally using a high-performance liquid chromatography. Humulone having antioxidant action acts as a treating agent for adult diseases, malignant rheumatoid arthritis, lesion such as scald, acne, spot, etc., or an antioxidant or degradation preventing agent for foods and drinks.

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